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Request to Archive
With The National Centers for Environmental Information
For Rapid Update Cycle Model Output
Provided by CICS-NC

2015-02-10

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This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?
Scott Stevens
CICS-NC
Research Associate
828-257-3019
scott.stevens@noaa.gov

2. Name the organization or group responsible for creating the dataset.
DOC/NOAA/NWS/NCEP > National Centers for Environmental Prediction, National Weather Service, NOAA, U.S. Department of Commerce

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.
This is hourly model analysis from the RUC model. We will only be saving the hourly analysis, as opposed to any forecast times. The output is a gridded model covering the continental US at a resolution that varies from 40-km during the early years to 20-km during later years. Variables include three-dimensional information on the state of the atmosphere, including temperature, moisture, pressure, and wind.

N.B. - A portion of this data already exists in NOMADS. What I have done is acquire the remainder to complete the set.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)
From 1998-04-20 to 2011-12-31

5. Edition or version number(s) of the dataset:
N/A

6. Approximate date when the dataset was or will be released to the public:
1998-04-20

7. Who are the expected users of the archived data? How will the archived data be used?
Model output is routinely used in reprocessing efforts, to serve as a snapshot of the atmosphere at a given time. It can also be used to initialize other model runs, so expected users range from modelers to researchers.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?
The dataset is an established model, has undergone peer review, and has been utilized in numerous research studies

over the years.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?
Unaware of earlier versions in the archive. As mentioned in question 3, a portion of this set already exists in NOMADS.

10. List the input datasets and ancillary information used to produce the data.
Not sure. The model was run at NCEP and not produced here.

11. List web pages and other links that provide information on the data.
http://ruc.noaa.gov/

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.
1. Unknown

13. Indicate the data file format(s).
1. GRIB 2

14. Are the data files compressed?
No

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).
ruc2.YYYYMMDDHH.pgrbanl in hourly files.

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?
The data currently reside on the CICS machine "headnode". Sample files can be provided if needed.

17. What is the total data volume to be submitted?
Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume:	2.44TB
Number of Data Files:	118154

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.
The model was retired on 1 May 2012, and replaced with the Rapid Refresh (RAP) model. It is likely that we will have these later for future efforts.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location:	Asheville, NC
System Name:	headnode
System Owner:	CICS-NC
Additional Information:	

20. What are the possible methods for submitting the data to NCEI? Select all that apply.
1. FTP PULL
2. FTP PUSH
3. SFTP PUSH
4. Unidata LDM
5. Physical Media Delivery

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.
1. Unknown

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?
No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.
Some of this data is already served through NOMADS, but there are considerable gaps. This data was collected from other sources and compiled here. This would serve to fill in existing gaps in the NCDC archive.

24. Are the data archived at another facility or are there plans to do so? Please explain.
Data that was not obtained through NOMADS was custom-ordered from the Atmospheric Radiation Measurement (ARM) program.

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?
This data serves as fundamental input to the NEXRAD (NMQ/Q2) Reanalysis effort, and several at NCDC have resolved to repatriate this data.

26. Do you have a data management plan for your data?
No

27. Have funds been allocated to archive the data at NCEI?
No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.
This data was collected as input data for the NEXRAD Reanalysis project.

29. Is there a desired deadline for NCEI to archive and provide access to the data?
No deadlines for archive or access.

30. Add any other pertinent information for this request.
None